

THE ULTIMATE SANITISER

Sterilises surfaces and kinder to hands

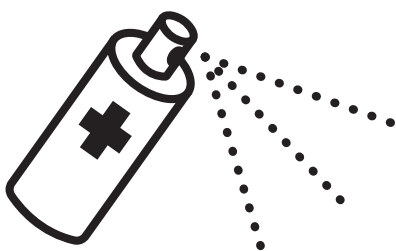
- PROTECT YOUR STAFF AND CUSTOMERS
- SUITABLE FOR SURFACES AND HANDS
- AVAILABLE TO BUY AS A SPRAY OR AEROSOL

PTC XtraSAN kills 99.9999% of bacteria and viruses. That's more than other alcohol based alternatives and it moisturises the skin at the same time.

Efficiency of disinfectant	LOG category	Remaining bacteria out of 1,000,000	Products effective at this level
99.9999%	LOG6	1	PTC XtraSAN
99.999%	LOG5	10	
99.99%	LOG4	100	Most alcohol based hand sanitisers
99.9%	LOG3	1000	
99%	LOG2	10000	

The best alcohol gels kill between 99.9% (LOG3) and 99.99% (LOG4). That will leave 1000 bacteria alive and ready to infect you. **PTC XtraSAN** kills 99.9999% (LOG6) leaving only 1 bacteria alive. There's no comparison.

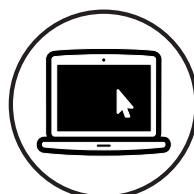
KILLS CORONA VIRUS • KIND ON HANDS • LONG LASTING ON SURFACES
48 HR DELIVERY • NO MAX ORDER QUANTITY



PTC XtraSAN
 SUITABLE FOR ANY
 SECTOR - WITH A
 UNIQUE SPRAY OR
 AEROSOL FUNCTION



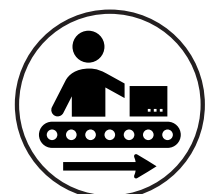
CONSTRUCTION



OFFICES



SCHOOLS



MANUFACTURING



GYM



HAIRDRESSERS



CAR INDUSTRY



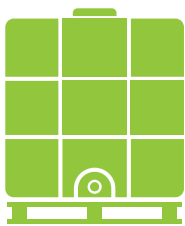
RESTAURANTS

PTC XtraSAN - Unlike any other sanitiser

Benefit	70% alcohol rub	PTC XtraSAN
Kills 99.99% bacteria	✓	✓
Kills 99.9999% bacteria	✗	✓
Moisturises hands	✗	✓
Non flammable	✗	✓
Use for both hands and surfaces	✗	✓
Builds up a protective film	✗	✓
Doesn't dry out your skin	✗	✓
Long lasting on surfaces up to 7 days	✗	✓
100% alcohol free	✗	✓
Available in aerosol for atmosphere sanitisation	✗	✓

- Not tested on animals. Vegan friendly
- Does not promote super bug resistance
- Does not evaporate
- PTC XtraSAN is a liquid, not a gel and so can be used in spray pumps
- Tested and certified against Corona Virus, Influenza, Common Cold, SARS, E Coli, MRSA, Aspergillus Niger, C Difficile (Technical & Safety data sheets available on request)
- Fully certified – EN1500

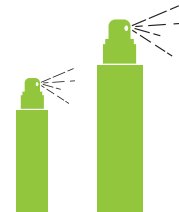
UNIT SIZES AVAILABLE TO ORDER:



1000 L
IBC



5 L
CONTAINER



500 ML AND 1 L
SPRAY BOTTLE

NEW



500 ML
AEROSOL

- **PTC XtraSAN** is suitable for hand and surface applications.
- Now also available in aerosol for atmospheric sanitisation.

ACTIVE SANITISER

Sterilises surfaces and kinder to hands

TECHNICAL DATA SHEET

PTC XtraSAN is a complex polymeric biocide in a ready to use aqueous solution providing rapid and ongoing antibacterial and antiviral action on treated surfaces and hands.

The product is non-toxic, non-irritant, non-hazardous, non-flammable and environmentally friendly. Effective against bacteria to BS EN 1276 and BS EN 13697 and against viruses to BS EN 14476.

The active ingredients contained in **PTC XtraSAN** attack protein and lipid structures, including those encapsulating envelope viruses such as COVID-19. **PTC XtraSAN** has demonstrated effectiveness against viruses similar to SARS-CoV-2 (which is the virus that causes COVID-19) on hard, nonporous surfaces. Therefore, **PTC XtraSAN** can be used against SARS-CoV-2 when used in accordance with the directions for use.

The active ingredients in **PTC XtraSAN** are listed on the United States Environmental Protection Agency website as being effective against Human Coronavirus.

Directions:

Use to refill sanitising stations, spray bottles and hand foamers as required.

As a surface cleaner:

Spray on to surface from a distance of 15-20cm. Leave to act for up to 5 minutes. Wipe away any excess product if necessary with a damp cloth, sponge or paper towel.

As a hand sanitiser:

Apply to hands, massage gently and allow to dry, or rinse with clean warm water if required.

Safety Information:

See separate SDS sheet.

Storage:

Store in a cool dry place away from direct sunlight.

IMPORTANT NOTE:

All the information in the Data Sheet is based on practical experience and is published in good faith. However, because we have no control over the manner or conditions in which our products are used, or over work undertaken or end product manufactured by the purchaser, we cannot accept liability for results. Responsibility for ascertaining the suitability of products for his purposes rests with the purchaser. All conditions, representations, statements, warranties or guarantees whatsoever, whether express, implied or statutory, in respect of any goods manufactured, sold or supplied by us are hereby expressly excluded and we accept no liability in respect of any claim for damage or consequential loss caused to any property arising directly or indirectly out of the use of our products or goods.

Health and Safety information - see separate sheet.

Regulatory compliance:

- o PTC XtraSAN Surface & Hand Sanitiser is 100% compliant with all international hand hygiene protocols and the EU Biocidal Products Regulation (NPR, Regulation (EU) 528/2012).
- o PTC XtraSAN contains the active ingredients of Benzalkonium chloride. CAS 8001-54-5 EC 264-151-6 and Dimethyl Dialkyl ammonium chloride CAS 7173-51-5 EC 230-525-2
- o Concentrations of these ingredients are equal to or above those recommended by the European Centre for Disease Prevention and Control for use in targeting COVID 19
- o <https://www.ecdc.europa.eu/sites/default/files/documents/coronavirus-SARS-CoV-2-guidance-environmental-cleaning-non-healthcare-facilities.pdf>
- Proven superior performance over alcohol based sanitising products
- o Kills up to 99.999% of germs within 1 minute
- o Kills a broad spectrum of bacteria and viruses
- o Effective against C. diff, unlike alcohol based hand sanitiser
- o Increased effectiveness with repeated use
- o Long lasting residual efficacy offering ongoing protection between uses and resistance the formation of biofilm
- o Biofilm disrupting capability
- 100% alcohol, chlorine, bleach and SLS Free
- Not tested on animals and vegan friendly
- Suitable for all skin types
- o Doesn't dry out, irritate or damage the integrity or pH level of the skin. Capable of actively moisturising.
- Non hazardous
- Non flammable
- Fragrance free
- Does not promote superbug resistance
- Formulation effective to EN 1500
- PTC XtraSAN is a sophisticated blend of active and inactive ingredients that has a very affective bio-film reduction capability. This is due to the secret and unique interaction between the various components

Test Test Organisms Log Reduction

Test	Test Organisms	Log Reduction
BS / EN 1276	<i>E. coli</i>	8.39
	<i>P. aeruginosa</i>	8.12
	<i>S. aureus</i>	7.37
	<i>E. hirae</i>	8.22
BS / EN 13697	<i>E. coli</i>	5.75
	<i>P. aeruginosa</i>	6.20
	<i>E. hirae</i>	6.13
	<i>S. aureus</i>	5.92
BS / EN 14476	Influenza A (H1N1)	PASS

ACTIVE SANITISER is a complex polymeric biocide in a ready to use solution providing rapid and ongoing antibacterial and antiviral action on treated surfaces and hands. Attacking protein and lipid structures, including those encapsulating envelope viruses such as COVID-19 PTC XtraSAN has demonstrated effectiveness against viruses on hard and nonporous surfaces.

The product is non-toxic, non-irritant, non-hazardous and environmentally friendly, making it the market leader for a combined hand and surface sanitiser.

PTC XtraSAN - Unlike any other sanitiser

Benefit	70% alcohol rub	PTC XtraSAN
Kills 99.99% bacteria	✓	✓
Kills 99.9999% bacteria	x	✓
Moisturises hands	x	✓
Non flammable	x	✓
Use for both hands and surfaces	x	✓
Builds up a protective film	x	✓
Doesn't dry out your skin	x	✓
Long lasting on surfaces up to 7 days	x	✓
100% alcohol free	x	✓
Available in aerosol for atmosphere sanitisation	x	✓



Effective against bacteria to BS EN 1276 and BS EN 13697 and against viruses to BS EN 14476 (including all Coronaviruses)

ATOMISED GATEWAY is a ready to use polymeric biocide sanitiser solution for the 'Gateway Entrance' providing a fast and effective disinfection of personnel on entry and exit of buildings that may be carrying on their hands and clothing viruses and bacteria.

The 'Gateway Entrance' senses as a person enters the spray gate and will automatically spray a fine mist of ATOMISED GATEWAY sanitiser as they pass through the gateway. Set at 3 seconds application this will provide a 97% coverage.

- Up to 9 passes per minute / 540 per hour
- 40 passes with just 1 litre of ATOMISED GATEWAY
- No exposure controls required



Effective against bacteria to BS EN 1276 and BS EN 13697 and against viruses to BS EN 14476 (including all Coronaviruses)

SURFACE COAT is a clear Epoxy Resin coating with a unique UV Indicator that will form a strong protective layer that has excellent resistance to viruses* bacteria and mould. The product can be applied through an approved PTC XtraSAN installer using a brush, roller, trowel or spray gun. The unique UV indicator will provide a control measure for the reapplication requirements. (*Effective **SARS-CoV- 2**)

The product can be applied onto wood, bamboo, solid surface, metal, cement, concrete, stone, marble, and many other material and surfaces.

- One application could last for years
- UV indicator enables maintenance/ periodic programme
- Non-toxic and Solvent Free
- Flame Retardant
- Slip Resistance





World Leading solutions to suppress the spread of Covid-19: PTC XtraSAN

HSBC paper on the impact of Covid-19

"Perhaps the biggest crisis of our generation. The decisions people and governments take in the next few weeks will probably shape the world for years to come." – Yuval Noah Harari, Historian & philosopher

Introduction

The COVID-19 outbreak has resulted in one of the largest ever shocks to the UK economy and public finances. The UK economy in May was approximately a quarter² smaller than in February 2020 and the Office for Budget Responsibility (OBR) assesses that the country is on track to record the largest annual fall in GDP in 300 years³.

As a result on 11th May the UK Government published 'Our plan to rebuild': the UK Government's COVID-19 recovery strategy.

The Government's aim at the centre of that plan was to return to life as close to normal as possible, for as many people across the UK as possible, as fast and fairly as possible; in a way that avoids a new epidemic, minimises lives lost and maximises health, economic and social outcomes.

Preventing the spread of Covid-19.

Suppressing Covid-19 is fundamental to the success of the government's strategy through tighter control on sanitisation and social distancing through all sectors of the economy. The outcome desired by government is to stimulate the economy and public well-being, and this means being able to loosen restrictions on key sectors in the economy, where home working is often not possible.

These are:

- Sport and Leisure
- Travel and Tourism
- Sport Events
- Retail

In addition to the above, there is the need to keep educational services open and safe. The government paper [of 11th May 2020] outlines the "commitment from everyone to protect each other and support our economy and from the government to build the world-beating test and trace system, and support our services and businesses; from our world-leading scientists to find effective treatments and a vaccine"

PTC XtraSAN offers a major breakthrough in the battle to suppress the spread of Covid-19 and will support the government's strategy to unlock the key sectors that drive economic growth and the desire to keep the R value closer to 0.5 than 1.0.



An overview of this is shown below: -

SECTOR	Risk hotspots	PTC XtraSAN	Method	Impact of PTC XtraSAN Application	Dosage
EDUCATION	Difficult to manage social bubbles with the daily migration of pupils & staff	ATOMISED	Dry Mist Gateway at school entrances	Kills 99.9999% of bacteria on clothes/ shoes/ hands/ all areas of contact through the Gateway Prevent virus migration and gives ongoing anti bacterial protection during the day	Single /Daily
EDUCATION	Surfaces such as desks, walls, floors, door handles and areas of high people contact.	SURFACE COAT	Liquid spray applied to kill bacteria and form a base protective barrier	Kills 99.9999% of bacteria PLUS unique benefit as creates a residual barrier that prevents any new bacteria forming on surfaces	One application until UV alert
EDUCATION	Unholstered chairs/ and other fabric based fittings. Difficult to clean	ACTIVE	Easy applied liquid or aerosol spray.	Will kill bacteria and create a residual surface barrier that will prevent Covid -19 forming on the surface. Will give additional top up to epoxy surface coat. Creates a residual barrier that prevents any new bacteria forming on surfaces	Single /Daily
EDUCATION	External service providers.	ACTIVE	Hand Dispensers	Kills 99.9999% when applied to hands and an ongoing protective coating that doesn't dry out skin	Single /Daily
EDUCATION	Bus and taxi transportation of pupils.	ACTIVE	Easy applied liquid or aerosol spray. Use with Surface Coat for max benefit	Will kill bacteria and create a residual surface barrier that will prevent Covid -19 forming on the surface. Will give additional top up to epoxy surface coat. Creates a residual barrier that prevents any new bacteria forming on surfaces	Single /Daily
TOURISM	Uk Borders/ movements between overseas countries/ travel hubs	ATOMISED	Dry Mist Gateway at entrances	Kills 99.9999% of bacteria on clothes/ shoes/ hands/ all areas of contact through the Gateway Prevent virus migration and gives ongoing anti bacterial protection during the day	Single /Daily
TRAVEL	Plane and train seats/floors/ cabin & carriage surfaces.	SURFACE COAT	Applied to form a base protective barrier	Kills 99.9999% of Viuses and Bacteria. PLUS unique benefit as creates a residual barrier that prevents any new bacteria forming on surfaces	One application until UV alert
TOURISM	Airport/station reception / check in points	ACTIVE	Easy applied liquid or aerosol spray. Use with Surface Coat for max benefit	Will kill bacteria and create a residual surface barrier that will prevent Covid -19 forming on the surface. Will give additional top up to epoxy surface coat. Creates a residual barrier that prevents any new bacteria forming on surfaces	Single /Daily
TRAVEL	Airport security /screening	ACTIVE	Hand Dispensers	Kills 99.9999% when applied on hands and ongoing protective coat	Single /Daily
SPORT	External sport venues entry areas	ATOMISED	Dry Mist Gateway at Stadium Entrances	Kills 99.9999% of bacteria on clothes/ shoes/ hands/ all areas of contact through the Gateway Prevent virus migration and gives ongoing anti bacterial protection during the event	Single /Daily
LEISURE	Entry into any theatre/ health clubs	ATOMISED	Dry Mist Gateway at Entrance	Kills 99.9999% of bacteria on clothes/ shoes/ hands/ all areas of contact through the Gateway Prevent virus migration and gives ongoing anti bacterial protection during the event	Single /Daily
SPORT	Stadium Seating / all used equipment	SURFACE COAT	Applied to form a base protective barrier	Kills 99.9999% of Viuses and Bacteria. PLUS unique benefit as creates a residual barrier that prevents any new bacteria forming on surfaces	One application until UV alert
LEISURE	Theatre Seating / all used surfaces	ACTIVE	Easy applied liquid or aerosol spray. Use with Surface Coat for max benefit	Will kill bacteria and create a residual surface barrier that will prevent Covid -19 forming on the surface. Will give additional top up to epoxy surface coat. Creates a residual barrier that prevents any new bacteria forming on surfaces	Single /Daily
HEALTH CARE/ HOSPITALS	Visitors that may be disease carriers	ATOMISED	Dry Mist Gateway at Hospital entrances	Kills 99.9999% of bacteria on clothes/ shoes/ hands/ all areas of contact through the Gateway Prevent virus migration and gives ongoing anti bacterial protection during the event	Single /Daily
HEALTH CARE/ HOSPITALS	All surfaces in wards / corridors/ reception areas: walls, floors & door handles with high people contact.	SURFACE COAT	Applied to form a base protective barrier	Kills 99.9999% of Viuses and Bacteria. PLUS unique benefit as creates a residual barrier that prevents any new bacteria forming on surfaces	One application until UV alert
HEALTH CARE/ HOSPITALS	Daily Cleaning can kill bacteria but does not provide a shield against new bacteria	ACTIVE	Easy applied liquid or aerosol spray. Use with Surface Coat for max benefit	Will kill bacteria and create a residual surface barrier that will prevent Covid -19 forming on the surface. Will give additional top up to epoxy surface coat. Creates a residual barrier that prevents any new bacteria forming on surfaces	Single /Daily
HEALTH CARE/ HOSPITALS	Replace alcohol based hand sanitisers	ACTIVE	Hand Dispensers	Kills 99.9999% when applied on hands and ongoing protective coat	Single /Daily

PTC XtraSAN is a unique, British developed and manufactured product, that is an active sanitiser because it will sterilise surfaces and leaves a residual protective film that will protect against further bacteria forming. Without this there will be new contact points that will continue to spread Coronavirus.

The above sectors are highlighted as they are critical areas that impact the UK economy.

Example: Tourism alone estimates that there will be 75 million job losses worldwide, with a fall in revenue of \$2.1 trillion- source World Travel & Tourism Council, but the same case examples can be made for the retail sector, as well as factories and commercial offices across the UK.



Key Benefits of PTC XtraSAN against competitors

- Non-toxic, non-irritant, non-hazardous
- Alcohol Free
- Tested and Certified to BS EN Standards
- Unique combined product as its an Active Hand and Surface Sanitiser
- Active Sanitiser that last on Surfaces for up to 7 days
- Long lasting Surface Lacquer effective against **SARS-CoV- 2**
- British Developed

Summary

The absence of effective immunisation means additional methods are urgently required to support business and prevent an increase in infection. Without new, additional, science led solutions, the UK economy is likely to experience a further negative impact on economic growth.

Using PTC XtraSAN growing innovative product portfolio is critical to the government's strategy to make the virus' control more effective in all sectors of business and commerce and is substantiated by leading laboratory research.

Prices (these need looking at)